

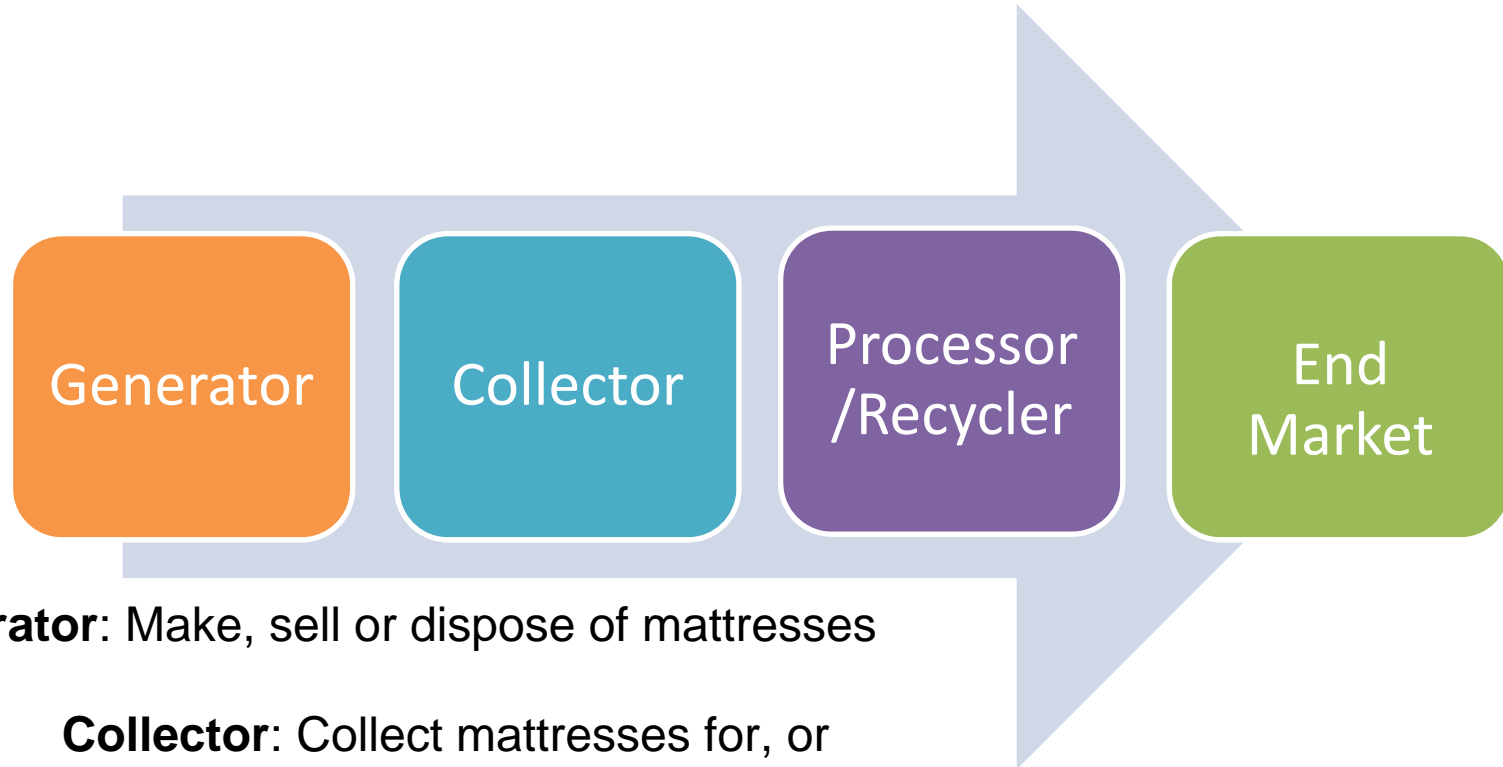


WELCOME!

Mattress Recycling Summit
December 7, 2011
King County Solid Waste Division



Mattress Recycling Supply Chain



Generator: Make, sell or dispose of mattresses

Collector: Collect mattresses for, or transport to, disposal / recycling

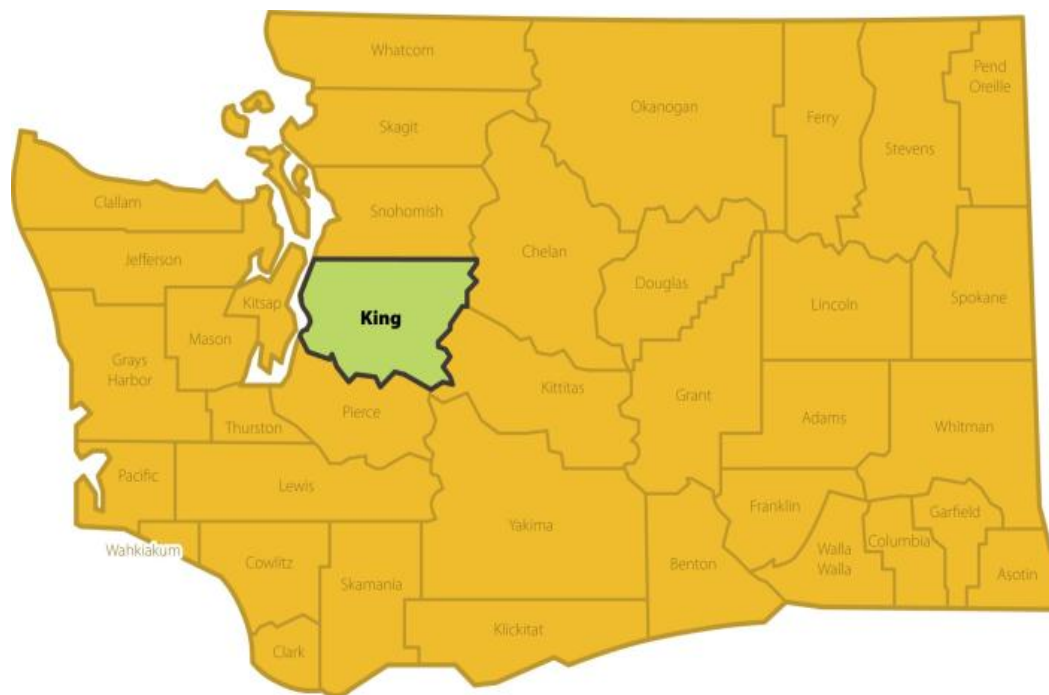
Processor / Recycler: De-construct mattresses into recyclable components

End market: Make a product out of, or find other uses for, mattress components



King County Solid Waste Division

Operates 1 landfill, 8 transfer stations
and 2 drop boxes



KingCounty.gov/SolidWaste



Mattress Disposal in King County (2010)

- 400 tons of mattresses at Cedar Hills Landfill (1500t in 2007)
- 23,000 tons of furniture *and* mattresses at Transfer Stations
- est. 1 ton ~ 19 tons of landfill space



Disposal Costs in King County

- At Cedar Hills Landfill
\$150.22 / ton (\$24.04 minimum)
- At Transfer Stations
\$102.05 / ton (\$17.25 minimum) for 6 or fewer *mattress pieces*



Mattress Recycling

- **Increase mattress recycling**
- **Reduce disposal at County facilities**
- Partnership for convenient mattress recycling



Facilitate development of

- *end markets* for recyclable materials
- *collection and processing infrastructure* that supplies markets

2011-12 focus: carpet, asphalt shingles, and mattresses



05/05/2008



Take it Back Network



- **Partnership** to *collect* and *recycle* electronics and fluorescent lighting
- King and Snohomish County, Seattle, Tacoma
- Privately funded
 - Businesses charge a fee for recycling
 - No government funding of recycling costs



Take Back and Recycling

- Collect mattresses from the public and generators, for a fee
- Send mattresses to processors to recycle into end market materials
- King County promotes Network



Resources

LinkUp and Mattress Resources:
www.kingcounty.gov/linkup

Take it Back Network:
www.kingcounty.gov/takeitback

NW Product Stewardship Council:
www.ProductStewardship.net

Product Stewardship Institute:
www.productstewardship.us/CTMattressMeeting

Contact

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Mattress Recycling

Washington State
Correctional Industries



CI Mattress Recycling

○ Program Goals

- Train and employ up to 32 offender workers
- Help reduce waste and avoid landfill costs by maximizing our recycling efforts
- Reduce our carbon footprint by utilizing Washington and Oregon mills to recycle our sorted materials
- Partner with agencies and organizations who support our mission



Where Do They Come From?

- Non Profits
- Retailers
- City Recycle Fairs
- State Agencies
- Colleges and Universities



What Parts Are Recyclable?

- Mattress toppers
- Denim shoddy cloth
- Foam
- Cotton
- Steel springs
- Wood frame



Where Do They Go?

- Toppers and denim shoddy cloth – Hog fuel
- Foam – used in carpet padding
- Cotton – used by casket companies for pillows and lining



Where Do They Go?

- Steel springs – steel recyclers
- Wood frames – Hog fuel, pulp and paper industry





Who Does The Work?

- Trained offenders deconstruct mattresses and box springs, and separate materials for recycling
- Offenders learn a variety of transferable skills for entry-level jobs
- Offenders develop a positive work ethic and valuable life skills

Who Does The Work?





Contact Correctional Industries

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